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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known		
			Application Number	10/608,723-Conf.# - 6915	
			Filing Date	June 26, 2003	
			First Named Inventor	Andrew R. Marks	
			Art Unit	1646	
			Examiner Name	R. Li	
Sheet	1	of	3	Attorney Docket Number	19240.594 US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
RLi	AA*	US-3,367,930-A	02-06-1968	Schmutz et al.	
	AB*	US-5,075,293	12-24-1991	Reifschneider et al.	
	AC*	US-5,180,720	01-19-1993	Husa et al.	
	AD*	US-5,182,272	01-26-1993	Hallinan et al.	
	AE*	US-5,304,644	04-19-1994	Husa et al.	
	AF*	US-5,324,722	06-28-1994	Hagen et al.	
	AG*	US-5,354,747	10-11-1994	Hansen, Jr. et al.	
	AH*	US-5,449,675	09-12-1995	Chandrakumar et al.	
	AI*	US-5,817,652	10-06-1998	Lawrence E. Brieady	
	AJ*	US-20030054531-A1	03-20-2003	Gretarsdottir et al.	
	AK*	US-20040082653-A1	04-29-2004	Nonaka et al.	
RLi	AL*	US-20060100195-A1	05-11-2006	Maruyama et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	⁶
RLi	BA	WO-92/19617	11-12-1992	Searle & Co		
	BB	WO-93/13082	11-27-1992	G.D. Searle & Co.		
	BC	WO-94/11360	05-26-1994	Boots Co Plc et al.		
	BD	WO-94/29286	12-22-1994	Searle & Co et al.		
	BE	FR-2709753	03-17-1995	Hoechst Lab		
	BF	WO-96/08228	03-21-1996	Zambon Spa et al.		
	BG	WO-97/17344	05-15-1997	Astra Ab et al.		
	BH	WO-99/26921	06-03-1999	Merck & Co Inc et al.		
	BI	WO-01/47510	07-05-2001	Glaxo Group Limited et al.		
	BJ	WO-02/08211	01-31-2002	G.D. Searle, LLC.		
	BK	WO-02/014246	02-21-2002	Bayer Aktiengesellschaft		
	BL	WO-02/014245	02-21-2002	Bayer Aktiengesellschaft		
	BM	WO-02/072145	09-19-2002	Ono Pharmaceutical Co, Ltd.		
	BN	WO-03/043655	05-30-2003	Ono Pharmaceutical Co., Ltd.		
	BO	EP-1369129	12-10-2003	Ono Pharmaceutical Co		
	BP	WO-2004/023030	03-18-2004	Nippon Chemi-con Corporation		
	BQ	WO-04/042389-A2	05-21-2004	Bayer Healthcare AG		
	BR	EP-1439221-A1	07-21-2004	F. Hoffmann-La Roche AG		
RLi	BS	EP-1447096	08-18-2004	Ono Pharmaceutical Co		

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			Examiner Name	R. Li	
Sheet	2	of	3	Attorney Docket Number	19240.594 US1

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
RLi	CA	Antos, C.L. et al.: "Dilated Cardiomyopathy and Sudden Death Resulting From Constitutive Activation of Protein Kinase A," Circulation Research, November 23, 2001. Pages 998-1004.		
	CB	Baille, et al., "beta-Arrestin-mediated PDE4 cAMP phosphodiesterase recruitment regulates beta-adrenoceptor switching from Gs to Gi," Proc. Natl. Acad. Sci. USA 100, 940-945 (2003).		
	CC	Barnes, P.J., "Theophylline: new perspectives for an old drug," Am. J. Respir. Crit. Care Med. 167, 813-8 (2003).		
	CD	Bittar, et al., "The arrhythmogenicity of theophylline. A multivariate analysis of clinical determinants," Chest 99, 1415-1420 (1991).		
	CE	Bolger, et al., "Characterization of five different proteins produced by alternatively spliced mRNAs from the human cAMP-specific phosphodiesterase PDE4D gene," Biochem. J. 328 (Pt 2), 539-48 (1997).		
	CF	Bristow, et al., "Beta 1- and beta 2-adrenergic-receptor subpopulations in nonfailing and failing human ventricular myocardium: coupling of both receptor subtypes to muscle contraction and selective beta 1-receptor down-regulation in heart failure," Circ. Res. 59, 297-309 (1986).		
	CG	Carlisle Michel, et al., "PKA-phosphorylation of PDE4D3 facilitates recruitment of the mAKAP signaling complex," Biochem. J. 381, 587-592 (2004).		
	CH	Conti, et al., "Cyclic AMP-specific PDE4 phosphodiesterases as critical components of cyclic AMP signaling," J. Biol. Chem. 278, 5493-6 (2003).		
	CI	Exhibit A: Chemical Structures		
	CJ	Feldman, et al., "Deficient production of cyclic AMP: pharmacologic evidence of an important cause of contractile dysfunction in patients with end-stage heart failure," Circulation 75, 331-9 (1987).		
	CK	Giembycz, M.A., "Development status of second generation PDE4 inhibitors for asthma and COPD: the story so far," Monaldi, Arch. Chest Dis. 57, 48-64 (2002).		
	CL	Gong, et al., "Persistent improvement in synaptic and cognitive functions in an Alzheimer mouse model after rolipram treatment," J. Clin. Invest. 114, 1624-1634 (2004)		
	CM	Gretarsdottir, et al., "The gene encoding phosphodiesterase 4D confers risk of ischemic stroke," Nat. Genet. 35, 131-8 (2003).		
	CN	Houslay, et al., "PDE4 cAMP phosphodiesterases: modular enzymes that orchestrate signaling cross-talk, desensitization and compartmentalization," Biochem. J. 370, 1-8 (2003).		
	CO	International Search Report and Written Opinion from PCT/US05/45914, August 31, 2006		
	CP	Jin, S.L.C. et al.: "Impaired growth and fertility of cAMP-specific phosphodiesterase PDE4D-deficient mice," PNAS, October 12, 1999, vol. 96, no. 21, 11998-12003.		
	CQ	Kapiloff, M.S. et al.: "mAKAP and the ryanodine receptor are part of a multi-component signaling complex on the cardiomyocyte nuclear envelope," Journal of Cell Science, 114, 3167-3176 (2001).		
	CR	Katritzky, et al., "1H and 13C NMR study of tetrahydro-1, 4-benzothiazepine conformations," J. Chem. Soc. 5, 1816-1822 (2002).		
	CS	Katritzky, et al., "Convenient syntheses of 2, 3, 4, 5-tetrahydro-1, 4-benzothiazepines, -1, 4-benzoxazepines and -1, 4-benzodiazepines," J. Chem. Soc. 11, 592-598 (2002).		
	CT	Mongillo, et al., "Fluorescence resonance energy transfer-based analysis of cAMP dynamics in live neonatal rat cardiac myocytes reveals distinct functions of compartmentalized phosphodiesterases," Circ. Res., 95, 67-75 (2004).		
	CU	Nair, et al., "Synthesis and reactions of 1, 4-benzothiazepine derivatives," IJOCAP, 7(9), 862-5 (1969).		
RLi	CV	Packer, et al., "Effect of oral milrinone on mortality in severe chronic heart failure. The		

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RLi		PROMISE Study Research Group," N. Engl. J. Med. 325, 1468-75 (1991).	
	CW	Perry, et al., "Targeting of cyclic AMP degradation to beta 2-adrenergic receptors by beta-arrestins," Science 298, 834-6 (2002).	
	CX	Pieske, et al., "Ca2+ handling and sarcoplasmic reticulum Ca2+ content in isolated failing and nonfailing human myocardium," Circ. Res. 85, 38-46 (1999).	
	CY	Richter, et al., "Splice variants of the cyclic nucleotide phosphodiesterase PDE4D are differentially expressed and regulated in rat tissue," Biochem. N. 388, 803-811 (2005).	
	CZ	Ruehr, et al., "Targeting the protein kinase A by muscle A kinase-anchoring protein (mAAP) regulates phosphorylation and function of the skeletal muscle ryanodine receptor," J. Biol. Chem. 278, 24831-24836 (2003).	
	CA1	Sette, et al., "Phosphorylation and activation of a cAMP-specific phosphodiesterase by the cAMP-dependent protein kinase. Involvement of serine 54 in the enzyme activation," J. Biol. Chem. 271, 16526-34 (1996).	
	CB1	Sette, et al., "The ratPDE3/lvd phosphodiesterase gene codes for multiple proteins differentially activated by cAMP-dependent protein kinase," J. Biol. Chem. 269, 18271-4 (1994).	
	CC1	Shannon, et al., "Elevated sarcoplasmic reticulum Ca2+ leak in intact ventricular myocytes from rabbits in heart failure," Circ. Res. 93, 592-4 (2003).	
	CD1	Suissa, et al., "Bronchodilators and acute cardiac death," Am. J. Respir. Crit. Care Med. 154, 1598-1602 (1996).	
	CE1	Tasken, et al., "Phosphodiesterase 4D and protein kinase a type II constitute a signaling unit in the centrosomal area," J. Biol. Chem. 276, 21999-2002 (2001).	
	CF1	van Rooij, et al., "MCIP1 overexpression suppresses left ventricular remodeling and sustains cardiac function after myocardial infarction," Circ. Res. 94, e18-26 (2004).	
	CG1	Verde, et al., "Characterization of the cyclic nucleotide phosphodiesterase subtypes involved in the regulation of the L-type Ca2+ current in rat ventricular myocytes," Br. J. Pharmacol. 127, 65-74 (1999).	
	CH1	Vignola, A.M., "PDE4 inhibitors in COPD--a more selective approach to treatment," Respir. Med. 98, 495-503 (2004).	
	CI1	Wang, et al., "Cloning and characterization of novel PDE4D isoforms PDE4D6 and PDE4D7," Cell. Signal. 15, 883-891 (2003).	
	CJ1	Wehrens, et al., "Intracellular Calcium Release Channels and Cardiac Disease," Annu. Rev. Physiol. (2004).	
	CK1	Xiang, Y. et al.: "Phosphodiesterase 4D is required for β_2 adrenoceptor subtype-specific signaling in cardiac myocytes," PNAS, January 18, 2005, Vol. 102, no. 3, 909-914.	
RLi	CL1	Zaccolo, et al., "Discrete micro domains with high concentration of cAMP in stimulated rat neonatal cardiac myocytes," Science 295, 1711-5 (2002).	

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